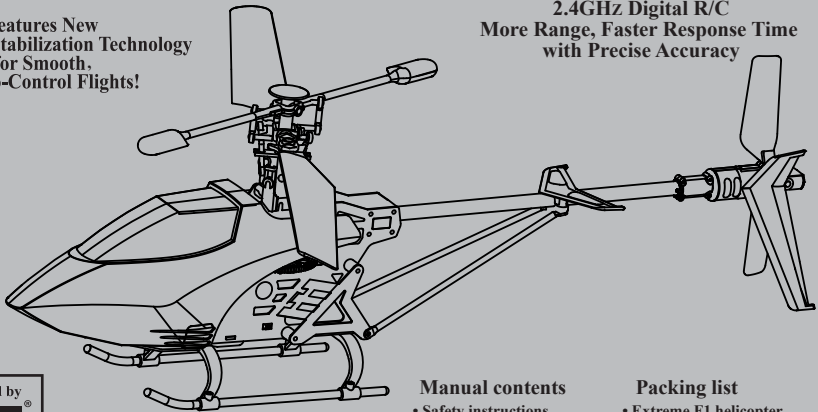## 3-CHANNEL GYRO SYSTEM

EXTREME® F1 2.4GHz

Single Blade ... Remote Control Helicopter

INDOOR / OUTDOOR

Metal Body ... Remote Control Outdoor Helicopter

14+ AGES

Features New Gyroscopic Stabilization Technology for Smooth, Easy-to-Control Flights!

2.4GHz Digital R/C More Range, Faster Response Time with Precise Accuracy

Manufactured by

SYMA

A name you can trust

Open M-F 9-6 ... Sat 10-3 (EST)

Distributed and serviced by: *Extreme RC by RSI ...* Ferndale, MI 48220
Tel: (586) 757-1336 E-mail: Service@extremercbyrsi.com
Website: www.extremercbyrsi.com

Manual contents
• Safety instructions
• Charging instructions
• Flying instructions
• Calibration control
• Battery installation
• Part list
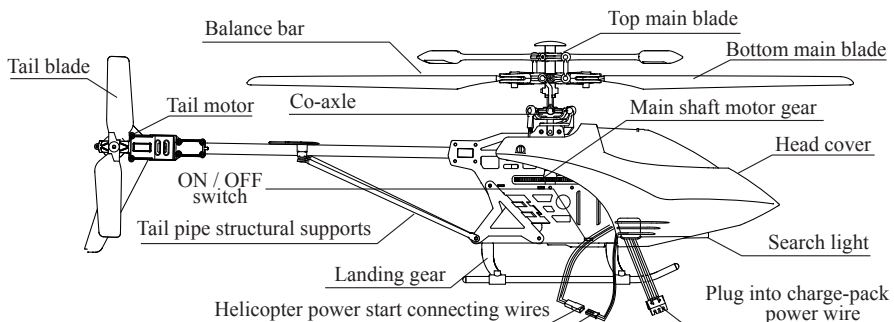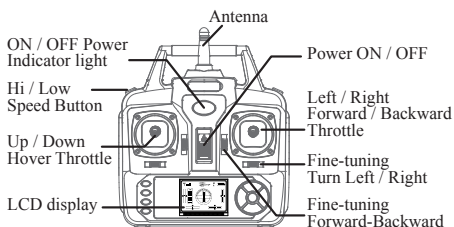• Troubleshooting
• Service department hours

Packing list
• Extreme F1 helicopter
• 2.4GHz Digital remote control
• A/C adapter
• Charge pack
• Warranty card
• Instruction manual
• Spare main and tail blades
• Screwdriver

Read the entire user's manual before operation. Save manual for future reference.

F1 HELICOPTER

Balance bar
Top main blade
Tail blade
Bottom main blade
Tail motor
Co-axle
Main shaft motor gear
Head cover
ON / OFF switch
Tail pipe structural supports
Search light
Landing gear
Plug into charge-pack power wire
Helicopter power start connecting wires

2.4GHz DIGITAL REMOTE CONTROL

Antenna
ON / OFF Power Indicator light
Power ON / OFF
Hi / Low Speed Button
Left / Right Forward / Backward Throttle
Up / Down Hover Throttle
Fine-tuning Turn Left / Right
LCD display
Fine-tuning Forward-Backward

CHARGE PACK

A/C ADAPTER

SPARE PARTS

Main blades

Tail blade

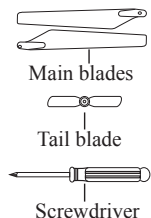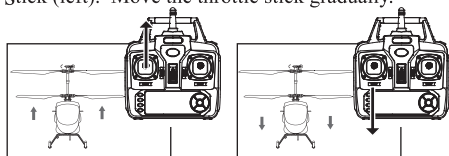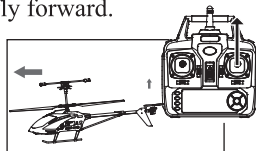Screwdriver

FLYING YOUR HELICOPTER

Hover up and down

Learn how to hover (fly in place) first – once you've mastered this operation, flying is easy. Once you can hover, try moving up and down with the throttle Stick (left). Move the throttle stick gradually.

Turn counter - clockwise and clockwise

While hovering helicopter, push throttle stick left for counter-clockwise turns or right for clockwise turns.
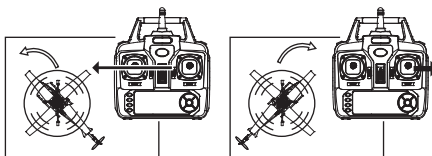
Forward

Push the right control throttle up - the nose of the helicopter will point downward, the tail motor will activate, and the helicopter will fly forward.
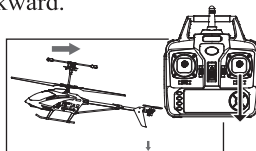
Reverse

Pull right control throttle down - the nose of the helicopter will point upward, the tail motor will activate, and the helicopter will fly backward.
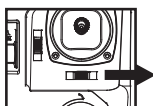
If the helicopter is turning excessively to the right or left, or moving forward or backward while hovering, the instruction guide below should help you resolve the problem.
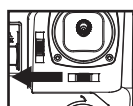
RIGHT / LEFT CALIBRATION TRIM CONTROL

If helicopter rotates counter-clockwise...
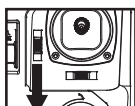push R/C right calibration control button right

If helicopter rotates clockwise...
push R/C right calibration control button left

TAIL SPEED CALIBRATION TRIM CONTROL

If the helicopter is moving forward while hovering.
push the R/C right button calibration trim control

If the helicopter is moving backward while hovering.
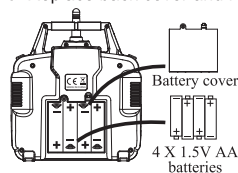push the R/C right button calibration trim control

PRECAUTIONS

1. Low battery power will shorten the controller's effective range.
2. Low battery power will lead to difficulties in taking off and ascending.
3. Immediately repair helicopter if there is any damage. Flying a damaged helicopter could cause injuries.
4. If you will not be flying your helicopter for 30 days or more, remove all 'AA' batteries to prevent harmful leakage.
5. Avoid crashing or dropping the helicopter on a hard surface, as this may dangerously damage the model.
6. When preparing to fly, turn on the helicopter first using the power switch on the model's fuselage, then turn on the remote control.
7. When you are finished flying, turn off the remote control first, then turn off the helicopter.
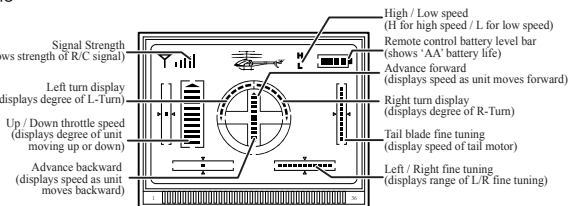8. Whenever possible, land on soft ground.

PREPARING THE REMOTE CONTROLLER

1. Remove the screw on the back of the remote controller.
2. Remove the back cover of the remote controller and install (4) AA batteries (not included) into the back of the remote (Figure 2).
3. Replace back cover and reinstall the screw.

Battery cover

NOTE:
Please ensure the negative and positive terminals of the batteries are correctly installed. Do not mix old and new batteries

Please remove 'AA' batteries when not using remote control for 30+ days. Batteries may leak causing damage.

4 X 1.5V AA batteries

REMOTE CONTROL LCD DISPLAY

High / Low speed (H for high speed / L for low speed)
Remote control battery level bar (shows 'AA' battery life)
Advance forward (displays speed as unit moves forward)
Signal Strength (shows strength of R/C signal)
Left turn display (displays degree of L-Turn)
Up / Down throttle speed (displays speed of unit moving up or down)
Advance backward (displays speed as unit moves backward)
Right turn display (displays degree of R-Turn)
Tail blade fine tuning (display speed of tail motor)
Left / Right fine tuning (displays range of L/R fine tuning)

FRESH ALKLINE BATTERIES STRONGLY RECOMMENDED

LI-ION BATTERIES CAN BE DANGEROUS
Failure to read and follow the below instructions may result in fire, personal injury and damage to property if charged or used improperly.

CHARGING INSTRUCTIONS

1. Be sure the helicopter power switch is in the OFF position.
2. Connect the helicopter lead wire into the charge-pack.
3. Plug the A/C adaptor into a power outlet.
4. Plug the pointed end of the A/C adaptor into the charge-pack.
5. After charging, put away power-pack and A/C adaptor for safe keeping.

• Red light: shows A/C adapter is plugged in
• Red On / Green On: charging battery
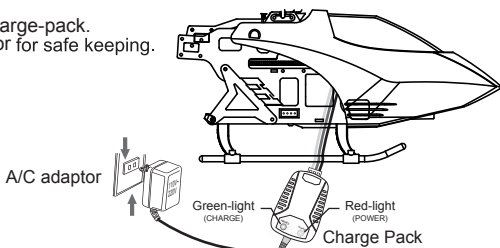• Red On / Green Off: battery fully charged

Charge time: up to 80 minutes

A/C adaptor

Green-light (CHARGE)
Red-light (POWER)
Charge Pack

CAUTION:
• Gently insert the plug into the charge-pack, and never use force.
• Use only the factory-supplied A/C adapter, cords, and charge-pack.
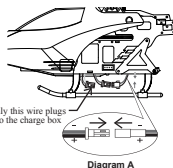
WARNING:
• Do not over-charge the battery – doing so will shorten battery life.
• Misuse or damage of Li-ion batteries may cause fire.

Once Fully Charged
(1) Disconnect the wire from the charge box.
(2) Carefully connect the red / black wires underneath the fuselage, making sure that the positive and negative poles are aligned (Diagram A).
(3) After charging, put away charge-pack and A/C charger for safe keeping.

If you will not be flying your helicopter for 24 hours or more, disconnect the red/black wires underneath the fuselage of the helicopter to prevent the battery from draining. See Diagram (A) for details.

Only this wire plugs into the charge box

Diagram A

PRE-FLIGHT ENVIRONMENT

1. Fly in moderate temperatures (50-80 F, 10-27 C).
2. Recommended outdoor flying area is: 40' x 40' (12.1 x 12.1 Meters).
3. Avoid strong winds, which could blow away or damage your helicopter.
4. Do not fly near children, the elderly, animals, homes, buildings, structures, water, mountains, overhead cables, electrical or telephone wires.

USE GOOD COMMON SENSE WHEN FLYING TO AVOID DAMAGE OR INJURY
NEVER TOUCH MOVING PARTS – MAY CAUSE INJURY

FLIGHT PREPARATION

1. Turn helicopter power switch to "On" position. Place helicopter on stable ground.
2. On your remote control, push the left throttle stick down, then up, then down again. This establishes a power signal connection, which will cause the colored lights on the helicopter to flash.
3. Stand back at least 8 feet (2.4 meters) from the helicopter.
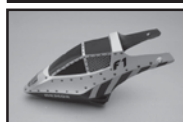4. You are now ready to fly!

Since this is a 2.4GHz Remote Controller, you will hear several beeps when you turn on the helicopter and R/C. This means that the R/C is acquiring the best signal for maximum performance. Once found (within 5 seconds), you will enjoy true digital performance with fast response times and precise movements.

TROUBLESHOOTING AND REPLACEMENT PARTS

PROBLEMS	POSSIBLE CAUSES	SOLUTIONS
Transmitter does not power on	Transmitter is turned off	Turn transmitter on
	Batteries are improperly installed	Match the poles on the batteries (+/-) to the markings on the controller and reinstall
Controller failure (Model does not respond to controls)	Batteries are dead or dying	Replace with fresh batteries
	Transmitter has been switched off	Turn transmitter on
	The fuselage switch has been switched off	Turn the fuselage switch on
	Helicopter internal battery connecting wires have become unplugged	Plug internal battery connector wires back together tightly
Failure to ascend	Blades rotating too slowly	Push throttle stick futher up
	Fuselage batteries are dead or dying	Recharge batteries
Crash landing	Landing too fast	Slowly ease the throttle down to smooth out your landings

If above does not help, look for damage. Feel free to call or e-mail our help support 556-757-1336 x 1 or e-mail: repair@extremercbyrsi.com M-F 9-6 ... Sat 10-3 (EST)

SPARE PARTS LIST

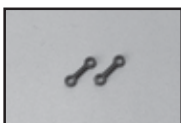Head cover **#1**

Tail and fin set **#2**

Main blades **#3**

Tail blade **#4**

Main fuselage housing **#5**

Motor housing **#6**

Balance bar **#7**

Balance bar connecting buckles **#8**

Landing gear **#9**

Main shaft drive gear **#10**

Main shaft **#11**

Co-axle main frame **#12**
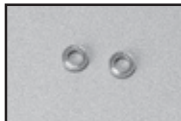
Balance-bar main support assembly set **#13**

Co-axle pins **#14**

Metal tail pipe tube with motor **#15**

Metal frame fuselage housing **#16**

Ball bearing set **#17**
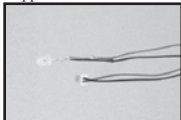
Tailpipe structural supports **#18**

Main front motor **#19**

Servo **#20**

7.4V 650mAh Li-poly battery **#21**

PCB board with ON/OFF switch **#22**

LED search light **#23**

2.4GHz remote control (R/C) **#24**

A/C adapter **#25**

Charge pack **#26**